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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/816,748	04/02/2004	William L. Bunnelle	14369.6US01 1148	
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MERCHANT & GOULD PC P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903			BOYKIN, TERRESSA M	
			. ART UNIT	PAPER NUMBER
			1711	

DATE MAILED: 03/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/816,748	BUNNELLE, WILLIAM L.
Office Action Summary	Examiner	Art Unit
	Terressa M. Boykin	1711
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>05 J</u> .      This action is <b>FINAL</b> . 2b) ☑ This      Since this application is in condition for allowal closed in accordance with the practice under the secondary secondary.	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4)  Claim(s) 1-27 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-27 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/o	wn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 31 March 2005 is/are:  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine 11.	a) accepted or b) objected to drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> <li>2. Certified copies of the priority document</li> <li>3. Copies of the certified copies of the priority application from the International Burea</li> <li>* See the attached detailed Office action for a list</li> </ul>	ts have been received.  Is have been received in Application of the control of th	on No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ate
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date <u>8-25-05</u>.</li> </ol>	5) Notice of Informal P.	atent Application (PTO-152)

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 18– 22 are rejected under 35 U.S.C. 102(b) as being anticipated by USP 5459184 as noted in applicants I.D.S. see table 1, example 4, claims 39 and 44.

The hot melt adhesives of the reference comprises a water-soluble polyalkylenimine, an hydroxy substituted organic compound, and optimally a plasticizer, a tackifier, and other ingredients. The adhesives are water actuated, and can be water activated, cleaned by aqueous systems, or recycled in aqueous systems. *Note that claim 18 does not require a salt of a strong acid.* A first aspect of the reference comprises an effective amount, from 10-75 wt-% of the polyalkylenimine polymer, an effective amount, about 10-50 wt-% of the hydroxy substituted organic compound and the balance of the formulation made from such additional components such as organic extenders, non-blocking additives, anti-oxidants, inorganic fillers, dyes, colorants, etc. Note that the above, additives are optional as in the non-blocking additives.

The contact lens adhesive is a substitute for a hydrophobic composition currently used in the contact lens industry. The current blocking adhesives require a chlorinated hydrocarbon solvent to dissolve the adhesive and requires an ultrasonic cleaning step for complete removal. The chlorinated solvent is believed to pose some health hazard to workers and can harm polymeric lens surfaces. The contact lens adhesive of this reference is fully water soluble, is non-toxic and results in substantial time and cost savings.

Nevertheless, the reference does disclose that the composition can also comprise an effective amount of an inorganic extender or filler, such as calcium carbonate, zinc oxide, alumina, clays, titanium dioxide, talc, carbon black and the like. For example, the adhesives formulated to be moisture-sensitive and can comprise up to about 25 wt-% of a mineral extender which is preferably fatty acid estercoated to increase its organophilicity. One commercially-available filler of this type is the stearate-calcium carbonate compound The filler material can also function to reduce (if desired) the pressure-sensitivity of the moisture-activated adhesives of the reference.

Preferred polyalkylenimines include polyethylenimines and polypropylenimines which are prepared by polymerizing heterocyclic monomers of the formula I wherein n is 2 or 3. These polyalkylenimines can be represented by the general formula II:

wherein A is as defined hereinabove, n is about 2-3 and m is about 50-10,000, preferably about 100-7500. Most preferably the heterocyclic monomer will comprise an alkyl substituted-2-oxazoline, i.e. n=2. The molecular weights of the polymers derived from such monomers can range from less than 50,000 to 500,000 or above.

Note claims 3, 4, 5, 6, and 7 and claims 28 –32 of the reference discloses the recited polyethyleneimine (although misspelled).

With regard to claims the hydroxy wax note claims 2, 15, 20, 27 and 40 of the reference.

Thus, the reference discloses prepared from the same components as claimed by applicants. Since the disclosed weight percents or amounts are expressed differently and thus may be distinct from those claimed, it is incumbent upon applicant(s) to establish that they are in fact different and whether such difference is unobvious. In view of the above, there appears to be no significant difference between the reference(s) and that which is claimed by applicant(s). Any differences not specifically mentioned appear to be conventional. Consequently, the claimed invention cannot be deemed as novel and accordingly is unpatentable.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior

art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over USP 5459184 see abstract, claims in view of US 5595764.

As noted previously, the reference discloses a hot melt adhesives which can comprise a water-soluble polyalkylenimine, an hydroxy substituted organic compound, and optimally a plasticizer, a tackifier, and other ingredients. The adhesives are water actuated, and can be water activated, cleaned by aqueous systems, or recycled in aqueous systems.

Note that although the claims require a salt of a strong acid and a particle size as disclosed, the reference does disclose the use of calcium carbonate filler which may also be known to be used as a water soluble composition. Note for example, US 5595764 provides a minimally water-soluble, calcium-based composition that is delivered directly or indirectly to the ocular surface. Calcium in this composition is present as a more or less water insoluble salt, such as calcium carbonate. The calcium salt is finely divided into particles having mean diameters of between 15 to 60 microns which fall within the size of less than about 150 microns as claimed. Although the reference does not disclose the use of sodium or potassium salt, it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the salt composition as discussed since such water solubleness affects the ocular surface and would be advantageous with regard to rinsing, cleaning etc.

With regard to the depended claims 2-17 note the disclosure of the reference **USP 5459184** as discussed above.

Consequently, the claimed invention cannot be deemed as unobvious and accordingly is unpatentable.

## Correspondence

Please note that the <u>cited</u> U.S. patents and patent application publications are available for download via the Office's PAIR. As an alternate source, <u>all</u> U.S. patents and patent application publications are available on the USPTO web site (<u>www.uspto.gov</u>), from the Office of Public Records and from commercial sources. Applicants may be referred to the Electronic Business Center (EBC) at <a href="http://www.uspto.gov/ebc/index.html">http://www.uspto.gov/ebc/index.html</a> or 1-866-217-9197.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Terressa Boykin whose telephone number is 571 272-1069. The examiner can normally be reached on Monday through Friday from 6:30am to 3:00pm.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. The general information number for listings of personnel is ( 571-272-1700).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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